PATENT ABSTRACTS OF JAPAN

(11)Publication number:

09-067654 (43)Date of publication of application: 11.03.1997

(51)Int.Cl.

C22C 38/00 C22C 38/16 H01F 1/16

(21)Application number: 07-220099

(71)Applicant : NKK CORP

(22)Date of filing:

29.08.1995

(72)Inventor: ODA YOSHIHIKO

HIURA AKIRA UFI SFISHI

TOMITA KUNIKAZU

(54) NONORIENTED SILICON STEEL SHEET EXCELLENT IN CORE LOSS CHARACTERISTICS (57)Abstract:

PROBLEM TO BE SOLVED: To produce a nonoriented silicon steel sheet excellent in core loss characteristics even by finish annealing at a low temp, in a short time and magnetic annealing at a low temp, in a short time.

SOLUTION: This nonoriented silicon steel sheet has a compsn. consisting of, by weight, >1 to 3.5% Si, 0.1 to 1% Al, 0.1 to 0.8% Mn, ≤0.05% Cu and ≤0.01% S, and in which the size and the number of inclusions contained therein are regulated to: those having 0.1 to 0.5 µm diameter are 500 to 5000 pieces/mm2 and those having >0.5μm diameter are ≤500 pieces/mm2. Furthermore, the content of C is regulated to ≤0.005%, P to ≤0.2% and N to ≤0.005%.